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| CLASSIFICATION<br><br>Unclassified                                                                                             |        |     |     |                                                                                  | PAGE |  |
| <b>RECEIVER EQUIPMENT CHARACTERISTICS</b>                                                                                      |        |     |     |                                                                                  |      |  |
| 1. NOMENCLATURE, MANUFACTURER'S MODEL NO.<br>APEX, Unmanned Aerial System                                                      |        |     |     | 2. MANUFACTURER'S NAME<br>Aeronautics Defense Systems, Ltd.                      |      |  |
| 3. RECEIVER INSTALLATION<br>Aeronautics Ltd.                                                                                   |        |     |     | 4. RECEIVER TYPE<br>Dual Conversion Superheterodyne                              |      |  |
| 5. TUNING RANGE<br>2200-2400 Mhz                                                                                               |        |     |     | 6. METHOD OF TUNING<br>Synthesizer                                               |      |  |
| 7. RF CHANNELING CAPABILITY<br>Continuous; 1 MHz freq resolution, Channel spacing 32MHz                                        |        |     |     | 8. EMISSION DESIGNATOR(S)                                                        |      |  |
| 9. FREQUENCY TOLERANCE<br>+/-7 PPM including aging for 15 years                                                                |        |     |     |                                                                                  |      |  |
| 10. IF SELECTIVITY                                                                                                             | 1ST    | 2ND | 3RD | 11. RF SELECTIVITY (X and complete as applicable)                                |      |  |
| a. -3 dB                                                                                                                       | 14 MHz | N/A | N/A | <input type="checkbox"/> CALCULATED <input checked="" type="checkbox"/> MEASURED |      |  |
| b. -20 dB                                                                                                                      | 26 MHz | N/A | XX  | a. -3 dB      350 MHz                                                            |      |  |
| c. -60 dB                                                                                                                      | 52 MHz | N/A | N/A | b. -20 dB      500 MHz                                                           |      |  |
| 12. IF FREQUENCY                                                                                                               |        |     |     | c. -60 dB      700 MHz                                                           |      |  |
|                                                                                                                                |        |     |     | d. PRESELECTION TYPE<br>Cavity                                                   |      |  |
| a. 1ST      899 Mhz                                                                                                            |        |     |     | 13. MAXIMUM POST DETECTION FREQUENCY<br>+100 KHz                                 |      |  |
| b. 2ND      N/A                                                                                                                |        |     |     | 14. MINIMUM POST DETECTION FREQUENCY<br>-100 KHz                                 |      |  |
| c. 3RD      N/A                                                                                                                |        |     |     | 16. MAXIMUM BIT RATE<br>8 Mbps                                                   |      |  |
| 15. OSCILLATOR TUNED                                                                                                           | 1ST    | 2ND | 3RD | 17. SENSITIVITY                                                                  |      |  |
| a. ABOVE TUNED FREQUENCY                                                                                                       |        |     |     | a. SENSITIVITY      -92      dBm                                                 |      |  |
| b. BELOW TUNED FREQUENCY                                                                                                       |        |     |     | b. CRITERIA      5 dB EB/N0                                                      |      |  |
| c. EITHER ABOVE OR BELOW TUNED FREQUENCY                                                                                       | X      | X   | X   | c. NOISE FIG      5      dB                                                      |      |  |
| 18. DE-EMPHASIS (X one)                                                                                                        |        |     |     | d. NOISE TEMP      300      Kelvin                                               |      |  |
| <input type="checkbox"/> a. YES <input checked="" type="checkbox"/> b. NO                                                      |        |     |     | 19. IMAGE REJECTION<br>60 dBC                                                    |      |  |
|                                                                                                                                |        |     |     | 20. SPURIOUS REJECTION<br>80 dBC                                                 |      |  |
| 21. REMARKS<br>Item 9 includes aging effect for 15 years<br><br><div style="font-size: 2em; margin-top: 20px;">Ground Rx</div> |        |     |     |                                                                                  |      |  |
| CLASSIFICATION<br><br>Unclassified                                                                                             |        |     |     |                                                                                  |      |  |

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| <b>ANTENNA EQUIPMENT CHARACTERISTICS</b>                                                                                                            |                                                             |                                                                    |
| 1. <input type="checkbox"/> a. TRANSMITTING <input type="checkbox"/> b. RECEIVING <input checked="" type="checkbox"/> c. TRANSMITTING AND RECEIVING |                                                             |                                                                    |
| 2. NOMENCLATURE, MANUFACTURER'S MODEL NO.<br>APEX, Unmanned Aerial System                                                                           | 3. MANUFACTURER'S NAME<br>Aeronautics Defense Systems, Ltd. |                                                                    |
| 4. FREQUENCY RANGE<br>1950-2750 Mhz                                                                                                                 | 5. TYPE<br>Omni directional                                 |                                                                    |
| 6. POLARIZATION<br><div style="text-align: center;">Linear Vertical</div>                                                                           | 7. SCAN CHARACTERISTICS                                     |                                                                    |
| 8. GAIN                                                                                                                                             | a. TYPE N/A                                                 |                                                                    |
| a. MAIN BEAM<br><div style="text-align: center;">2 dBi</div>                                                                                        | b. VERTICAL SCAN                                            |                                                                    |
| b. 1ST MAJOR SIDE LOBE<br><div style="text-align: center;">N/A</div>                                                                                | (1) MAX ELEV<br><div style="text-align: center;">N/A</div>  |                                                                    |
| 9. BEAMWIDTH                                                                                                                                        | (2) MIN ELEV<br><div style="text-align: center;">N/A</div>  |                                                                    |
| a. HORIZONTAL<br><div style="text-align: center;">+360 deg</div>                                                                                    | (3) SCAN RATE<br><div style="text-align: center;">N/A</div> |                                                                    |
| b. VERTICAL<br><div style="text-align: center;">+65 deg</div>                                                                                       | c. HORIZONTAL SCAN                                          |                                                                    |
| 10. REMARKS                                                                                                                                         |                                                             |                                                                    |
| Ground Omni Antenna                                                                                                                                 |                                                             |                                                                    |
| CLASSIFICATION<br><div style="text-align: center; margin-top: 10px;">Unclassified</div>                                                             |                                                             |                                                                    |



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| <b>RECEIVER EQUIPMENT CHARACTERISTICS</b>                                                                                                              |        |     |     |                                                                                  |      |  |
| 1. NOMENCLATURE, MANUFACTURER'S MODEL NO.<br>APEX, Unmanned Aerial System                                                                              |        |     |     | 2. MANUFACTURER'S NAME<br>Aeronautics Defense Systems, Ltd.                      |      |  |
| 3. RECEIVER INSTALLATION<br>Aeronautics Ltd.                                                                                                           |        |     |     | 4. RECEIVER TYPE<br>Dual conversion Superheterodyne                              |      |  |
| 5. TUNING RANGE<br>2200-2400 Mhz                                                                                                                       |        |     |     | 6. METHOD OF TUNING<br>Synthesizer                                               |      |  |
| 7. RF CHANNELING CAPABILITY<br>Continuous; 1 MHz freq resolution, Channel spacing 32MHz                                                                |        |     |     | 8. EMISSION DESIGNATOR(S)                                                        |      |  |
| 9. FREQUENCY TOLERANCE<br>+/-7 PPM                                                                                                                     |        |     |     |                                                                                  |      |  |
| 10. IF SELECTIVITY                                                                                                                                     | 1ST    | 2ND | 3RD | 11. RF SELECTIVITY (X and complete as applicable)                                |      |  |
| a. -3 dB                                                                                                                                               | 14 MHz | N/A | N/A | <input type="checkbox"/> CALCULATED <input checked="" type="checkbox"/> MEASURED |      |  |
| b. -20 dB                                                                                                                                              | 26 MHz | N/A | N/A | a. -3 dB 350 MHz                                                                 |      |  |
| c. -60 dB                                                                                                                                              | 52 MHz | N/A | N/A | b. -20 dB 500 MHz                                                                |      |  |
| 12. IF FREQUENCY                                                                                                                                       |        |     |     | c. -60 dB 700 MHz                                                                |      |  |
|                                                                                                                                                        |        |     |     | d. PRESELECTION TYPE<br>Cavity                                                   |      |  |
| a. 1ST 899 Mhz                                                                                                                                         |        |     |     | 13. MAXIMUM POST DETECTION FREQUENCY<br>+100 KHz                                 |      |  |
| b. 2ND N/A                                                                                                                                             |        |     |     | 14. MINIMUM POST DETECTION FREQUENCY<br>-100 KHz                                 |      |  |
| c. 3RD N/A                                                                                                                                             |        |     |     | 16. MAXIMUM BIT RATE<br>8 Mbps                                                   |      |  |
| 15. OSCILLATOR TUNED                                                                                                                                   | 1ST    | 2ND | 3RD | 17. SENSITIVITY                                                                  |      |  |
| a. ABOVE TUNED FREQUENCY                                                                                                                               |        |     |     | a. SENSITIVITY      -92      dBm                                                 |      |  |
| b. BELOW TUNED FREQUENCY                                                                                                                               |        |     |     | b. CRITERIA      5 dB EB/N0                                                      |      |  |
| c. EITHER ABOVE OR BELOW TUNED FREQUENCY                                                                                                               | X      | X   | X   | c. NOISE FIG      5      dB                                                      |      |  |
| 18. DE-EMPHASIS (X one)                                                                                                                                |        |     |     | d. NOISE TEMP      300      Kelvin                                               |      |  |
| <input type="checkbox"/> a. YES <input checked="" type="checkbox"/> b. NO                                                                              |        |     |     | 19. IMAGE REJECTION<br>60 dBC                                                    |      |  |
|                                                                                                                                                        |        |     |     | 20. SPURIOUS REJECTION<br>80 dBC                                                 |      |  |
| 21. REMARKS<br>Item 9 value includes aging for 15 years<br><br><div style="font-size: 2em; font-family: cursive; margin-top: 20px;">Air borne Rx</div> |        |     |     |                                                                                  |      |  |
| CLASSIFICATION<br><br>Unclassified                                                                                                                     |        |     |     |                                                                                  |      |  |

|                                                                                                                                                     |                                                             |               |
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| <b>ANTENNA EQUIPMENT CHARACTERISTICS</b>                                                                                                            |                                                             |               |
| 1. <input type="checkbox"/> a. TRANSMITTING <input type="checkbox"/> b. RECEIVING <input checked="" type="checkbox"/> c. TRANSMITTING AND RECEIVING |                                                             |               |
| 2. NOMENCLATURE, MANUFACTURER'S MODEL NO.<br>APEX, Unmanned Aerial System                                                                           | 3. MANUFACTURER'S NAME<br>Aeronautics Defense Systems, Ltd. |               |
| 4. FREQUENCY RANGE<br>2150-2400 Mhz                                                                                                                 | 5. TYPE<br>Omni directional                                 |               |
| 6. POLARIZATION<br><div style="text-align: center;">Linear Vertical</div>                                                                           | 7. SCAN CHARACTERISTICS                                     |               |
| 8. GAIN                                                                                                                                             | a. TYPE N/A                                                 |               |
| a. MAIN BEAM<br><div style="text-align: center;">2 dBi</div>                                                                                        | b. VERTICAL SCAN                                            |               |
| b. 1ST MAJOR SIDE LOBE<br><div style="text-align: center;">N/A</div>                                                                                | (1) MAX ELEV<br><div style="text-align: center;">N/A</div>  |               |
| 9. BEAMWIDTH                                                                                                                                        | (2) MIN ELEV<br><div style="text-align: center;">N/A</div>  |               |
| a. HORIZONTAL<br><div style="text-align: center;">+360 deg</div>                                                                                    | (3) SCAN RATE<br><div style="text-align: center;">N/A</div> |               |
| b. VERTICAL<br><div style="text-align: center;">+65 deg</div>                                                                                       | c. HORIZONTAL SCAN                                          |               |
| 10. REMARKS                                                                                                                                         |                                                             |               |
| Airborne Blade Omni Antenna                                                                                                                         |                                                             |               |
| CLASSIFICATION<br><br>Unclassified                                                                                                                  |                                                             |               |